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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,430	10/31/2001	Roland M. Hochmuth	10017761-1	2418

7590 12/28/2007
L. Joy Griebenow - HEWLETT-PACKARD COMPANY
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EXAMINER

YANG, RYAN R

ART UNIT	PAPER NUMBER
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2628

MAIL DATE	DELIVERY MODE
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12/28/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/001,430	Applicant(s) HOCHMUTH ET AL.	
	Examiner Ryan R. Yang	Art Unit 2628	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 October 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 19-25 and 34-39 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 19-25,34-39 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is responsive to communications: Amendment, filed on 10/12/2007.

This action is final.

2. Claims 19-25 and 34-39 are pending in this application. Claims 19 and 34 are independent claims. In the Amendment, filed 10/12/2007, claims 19 and 34 were amended.

3. The present title of the invention is "System and method for communicating graphics image data over a communication network" as filed originally.

Claim Rejections - 35 USC § 102

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
5. Claims 19-25 and 34-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Emerson et al. (US 6,664,969).

As per claim 19, Emerson et al, hereinafter Emerson, discloses a method of transmitting graphics image data over a communication network, comprising:

comparing graphics image data of a new image for a particular destination device of a plurality of destination devices with graphics image data of a previous image for particular destination device stored in a region of a frame buffer of a graphics adapter assigned to said particular destination device, said graphics adapter located remote from said particular destination device ("the processor 100 may periodically read the video graphics data from the frame buffer 114a in order to determine whether the data has changed. If the data has changed, the processor 100 will compress the video

graphics data and transmit the data to the remote console C via one of the communications devices”, column 6, line 16-21, where any region of a frame buffer is considered a region and the remote console C is a particular destination device in a internet connection (column 4, line 4) where a plurality of destination devices could be conneted);

selecting blocks of graphics image data of new image that are different from corresponding blocks of graphics image data of previous image (“Each block is periodically monitored for changes by calculating a hash code and storing the code in a hash code table. When the hash code changes, the block is transmitted to the remote console”, Abstract, line 5-8); and

formatting, by said graphics adapter, said selected blocks of graphics image data of said new image into a plurality of packets for transmission by a network interface of said graphics adapter over said communication network (“processing continues at step 554 where the transmit buffer is developed into a transmit packet and transmitted to the remote console C via the modem 112a or NIC 110”, column 15, line 48-50).

6. Regarding claim 20, Emerson discloses that transmitting plurality of packets to said particular destination device over said communication network (Figure 3, item 110 and 112A are communication networks).

7. Regarding claim 21, Emerson discloses that compressing said selected blocks of graphics image data prior to formatting selected blocks of graphics image data (Figure 6; “A pixel block 200 is first converted to a 6-bit color pixel block 208, as noted above. Then the 6-bit color pixel block 208 may be compressed by a compression function 210

and temporarily stored in a transmit buffer 212. At least at the end of each row, a transmit packet 214 is developed having a conventional header and footer as required by the particular network transport scheme", column 9, line 12-18).

8. Regarding claims 22-23, Emerson discloses that adding identification information identifying selected blocks to plurality of packets and identification information comprises block numbers for selected blocks ("At least at the end of each row, a transmit packet 214 is developed having a conventional header and footer as required by the particular network transport scheme", column 9, line 15-18).

9. Regarding Claim 24, Emerson demonstrated all the elements as disclosed in the rejected claim 22, and further discloses an identification information comprises coordinate information for a plurality of corners of said selected blocks ("One example of marking surrounding pixels blocks is illustrated in FIG. 11B. A changed pixel block 200 was located at row 4, column 4", column 14, line 12-14)

10. Regarding claim 25, Emerson demonstrated all the elements as disclosed in the rejected claim 20, and further discloses waiting for a request for graphics image data from said particular destination device ("The remote console C communicates its ability to interpret the special commands before the remote management board 50 will send graphics data", column 10, line 14-17).

11. Regarding claims 34-39, Emerson discloses a graphics processing system (Figure 3) with all the similar to claims 19-22 and 24-25 respectively, therefore are rejected as claims 19-22 and 24-25 respectively.

Response to Arguments/Amendments

12. Applicant's arguments filed 10/12/2007 have been fully considered but they are not persuasive.

As per claims 19 and 34, applicant alleges Emerson does not teach the claims limitations. In reply, Examiner considers "a region" as any region of a frame buffer, therefor, Emerson meets the limitation. As for "assigned to said particular destination device ... of a plurality of destination devices", since the destination device C is a particular device in an internet environment, it is a particular device of a plurality of destination devices.

Conclusion

13. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.


Inquiries

Art Unit: 2628

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan R. Yang whose telephone number is (571) 272-7666. The examiner can normally be reached on M-F 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on (571) 272-7664. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Ryan Yang
Primary Examiner
December 19, 2007